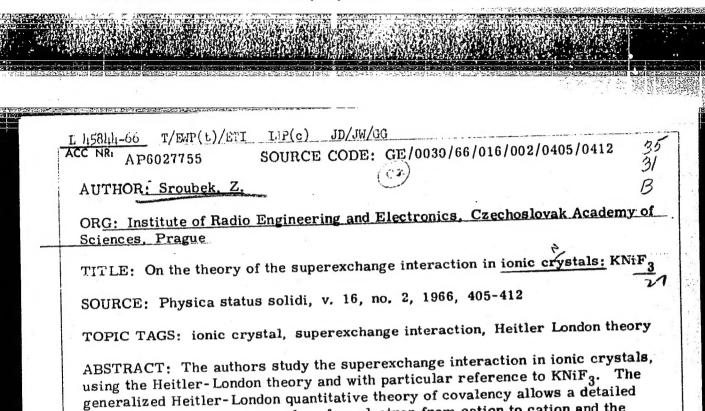
WW/GG EWT(1)/EWT(m)/EPF(n)-2IJP(c) 10463-66 GE/0030/65/012/002/K085/K087 FOURCE CODE: AP6002046 ACC NR 49,55 44,55 AUTHOR: Zdansky, K.; Sroubek 11115 ORG: Institute of Radio Engineering and Electronics of the Czechoslovak of Sciences, Prague TITLE: Electron spin resonance of NO3 in irradiated NaNO3 SOURCE: Physica status solidi, v. 12, no. 2, 1965, K85-K87 spin resonance, electron spin resonance, single crystal, irradiation TOPIC TAGS: 21,111/55 ABSTRACT: The EPR of NaNO3 single crystals irradiated with x-rays (40 kv; 25 ma) for 1 to 2 hours was investigated. Pure NaNO3 crystals were grown from aqueous solutions by slow evaporation at 30C. The spectra were measured at 77K with an x-band electron spin resonance spectrometer having a magnetic field modulation at about 900 kcps. The magnetic field was parallel and perpendicular to the rhombohedral [111] crystal axis. The intensity of the spectrum obtained corresponded to about 1017 species per cm3. After short-time annealing at about 200K, followed by cooling to 77K, the spectrum of NO<sub>3</sub> disappeared completely. The EPR spectrum obtained was attributed to NO<sub>3</sub> for the following reasons: 1) The hyperfine interaction of the unpaired electron with the nitrogen nucleus <sup>14</sup>N was small. 2) The unpaired electron of planar or pyramidal axially symmetric NO<sub>3</sub> was in the nonbonding molecular orbital. This non-bonding molecular orbital was a linear combination of oxygen atomic orbitals only. 1/2 Card

ACC NR: AP6002046					1	_	<u> </u>
Consequently, the r	itrogen hyperf	ine inte	raction giv	en by th	e exchang	ge pole	+ NO
Consequently, the r is zero or very sma Loses an electron o	11. The simpl	est inte	rpretation	or this	ed into	planar	or pyrami-
loses an electron o dal axially symmet:	due to X-irrau	art. ha	6: 1 figu	re and 1	table.		[JA]
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CIA-RDP86-00513R001652810003-5"



study to be made of the transfer of an electron from cation to cation and the

APPROVED FOR RELEASE: 08/25/2000 CTA-RDD86-005120001652001

transfer of two electrons from an anion to the cations. No further assumptions are made and the calculations are performed numerically. To overcome the difficulties with the ab initio calculations from atomic wave functions, the authors define some semi-empirical parameters and thus obtain simple expressions for antiferromagnetic energy stabilization. The antiferromagnetic superexchange constant

POPIL\*SKIY, R.Ya.; SROVA, G.A.

Conditions for producing cristotalite from quartz sand. Trudy
MKHTI no.27:197-204 \*59. (MIRA 15:6)

(Cristobalite)

Balitskiy, S.A., kand. tekhn. nauk; SROYMLOV, V.S., inzh.; SUSHOT, L.P.

Lithium chloride units for conditioning air. Vod. sam. tekh.
no.2:3-9 F '64 ( ... 18:2)

Country : CZECHOSLOVAKIA

Category: Cultivated Plants. Commercial. Oil-Bearing.

Sugar-Bearing.

Abs Jour: RZhBiol., No 22, 1958, No 100411

Author : Srp. A.

Inst : The Influence of Climatic Factors on the Yield Title

of Hops.

Orig Pub: Chmelarstvi, 1958, 31, No 1, 12-13

Abstract: The entire world area under hops is concentrated approximately between 45-60° north latitude. The best hops are cultivated in regions situated in the zone of 50° northern latitude. Distribution of warmth during the period of vegetation has the greatest influence.

: 1/4 Card

M-131

The sum of temperatures in the area of Zhatets APPROVED FOR RELEASE; 08/25/2000 time beginning of the ve-2000-2800°. Hops grow well in regions with mean annual temperature of 8°. A minimum temperature of 15° in the atmosphere and 13° in the soil is necessary for the growth of hops. A severe drop in the temperature in the middle of May produces a yellowing of the plants. A gradual rise in the temperature starting with March, and an increase in the mean monthly temperatures until July, are favorable for hops. The mean monthly temperature in August must be

Card : 2/4

approximately equal to that in June. A sharp rise in the temperature in March induces a furious growth in hops. During 1954-1956, the amount of precipitation in the period of vegetation was approximately the same. But the most favorable temperatures during March-September were in 1955. The yield of hops in 1957, under similar conditions of agricultural technique, was 62-120% more than in 1954 and 1956. Sunlight produces an influence chiefly on the quality of the cones. 713 hours of sunlight are required for hops in the period

Unechealovakia COUNTRY leneral froblems of Pathology. CATEGORY comparative Choology, Human Ner lasms, : RZhBiol., No. 23 1958, No. 107133. ABS . JOUR. cantova, B.; Srp.B. AUTHOR T = 0.5: A Case of Papillocarcinoms of the Urinary Bladder in the Course of Pregnancy. ORIG. PUB. : Ceskosl.gynaekol.,1958,23-37,No.1-2,31-34. ABSTRACT A case of papillocarcinoma of the urinary bladder in the course of treamency in h 39year-old woman. is described, being of interest from the point of view of differential diagnosis. Symptoms of chronic cyatitis and of toxemia of pregnarcy masked the manifestations of the tumor, which led to a late diagnosis. The patient died one year following cystectomy and bilateral ureterchismoid an-

CARD:

1/2

-34-

astomosis because of a recurrence of the tumor. Froblems of the clinical picture and diagnosis in papillocarcinomas of the given

ΰ

COUNTRY : CATEGORY :

ABS. JOUR. : RZhBiol., No. 23 1958, No. 107133

AUTHOR : INST. : TITLE :

ORIG, PUB.

ABSTRACT : localization are discussed.

cont'd.

2/2

Card:

SEP, Bedrich, As. Dr.; KOTASEK, Alfred, Doc. Dr.

Effect of veratrine alkaloids on hemodynamics in toxemia of late pregnancy. Cesk. gyn. 22[37] no.1/2:112-117 Jan 58.

1. I. por. klinika KU, prednosta prof. Dr Karel Klaus. A. K., Praha 2, b'Apolinarska 18.

(PREGNANCY TOKEMIAS, ther. veratrum alkaloids, eff. on hemodynamics (Cz))

(VERATRUM ALKALOIDS, ther. use pregn. toxemia, eff. of hemodynamics (Cz))

(BLOOD PRESSURE, eff. of drugs on veratrum alkaloids in ther. of pregn. toxemias(Cz))

BUDINSKY, J., CSc.; STIKSA, E.; SKHIVAN, J.; FABIANOVA, J.; SRP, B., CSc.

Neuroplegic obstetrical analgesia. Cesk. gyn. 27[41] no.5:

387-394 Je '62.

1. I. gyn.-por. klin. KU v Praze, prednosta prof. dr. K. Klaus, Dr\$c. (ANESTHESIA OBTETRICAL) (HIBERNATION ARTIFICIAL)

SRP, B.; CERNY, J.; DRABKOVA, J.

On the problem of heart diseases in pregnancy. Cesk. gynek. 30 no.9:653-658 N '65.

1. I. gyn.-por. klin. fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. K. Klaus, DrSc.).

DRABKOVA, J.; HODR, J.; SRP, B.; CERNY, J.

The choice of anesthesia for pregnant cardiac patients. Cesk. gynek. 30 no.9:668-671 N '65.

l. Anesteziologicke oddeleni Krajskeho ustavu narodniho zdravi Stredoceskeho kraje v Praze (vedouci MJDr. J. Hodr) a I. por. klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. K. Klaus, DrSc.).

LOLEZAL, Zdenek; SRP, Emil

Conference of mining standardization specialists of the Permanent Coal Commission of the Council for Mutual Economic Assistance. Uhli 5 no.8:285 Ag \*63.

ERC . . . .

"State gas inspection activities."

APPROVED FOR RELEASE: 08/25/2000, CIA-RDP86-00513R001652810003-5"
PALIVA, Praha, Czechoslovskia, Vol. 39, No. 5, May 1959.

Monthly List of East European Accessions (EDAI), LC, Vol. 8, No. 9, September 1959. Unclassified.

VANURA, Tomas, inz.; SRP, Jaromir, inz.; JINDRA, Ladislav, inz.

Experience with the construction of an assembled reinforced concrete hall of unusual shape. Inz stavby 11 no.1:8-11 Ja '63.

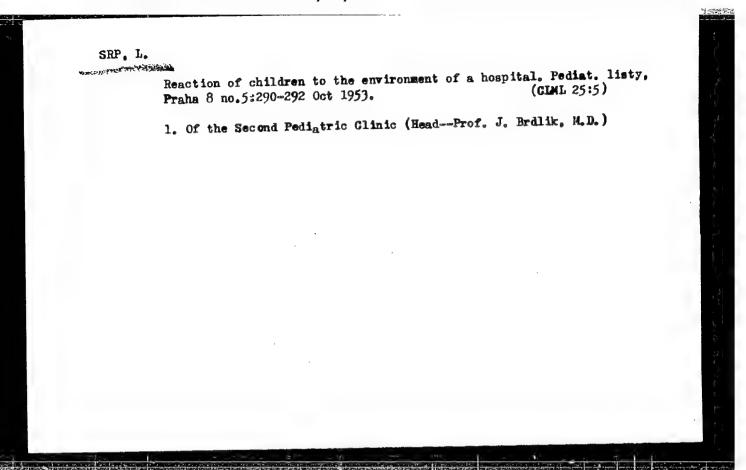
Bretislava, projekcni atelier

SRP, L.

Effect of visual perception on blood sugar level. Pediat. listy. Praha 8 no.5:266-268 Oct 1953. (CIML 25:5)

1. Of the Second Pediatric Clinic (Heads-Prof. J. Brdlik, M.D.)

APPROVED FOR RELEASE: 08/25/2000



SRP, L

Modifications in association spheres in sleep therapy of stamering. Cas. lek. cesk. 92 no.44:1215-1217 30 Oct 1953. (CLML 25:4)

1. Of the Second Pediatric Clinic (Head-Prof. J. Brdlir, M.D.)

SRP, L.; HRODEK, O.

Psychological problems in care for children with acute leukemia. Cesk. pediat. 17 no.4:305-311 Ap '62.

1. II detska klinika Karlovy university, prednosta prof. MUDr. J. Heustek.

(LEUKEMIA psychol)

SRP, Ladislav; LICKO, Ladislav

Some psychological problems of sick children. Cesk. pediat. 17 no.7/8: 653-657 Ag '62.

l. II. detska klinika fakulty detskeho lekarstvi KU v Praze, prednosta rrof. dr. J. Houstok II. detska klinika fakultni nemocnice v Bratislave, prednosta prof. dr. J. Michalicova.

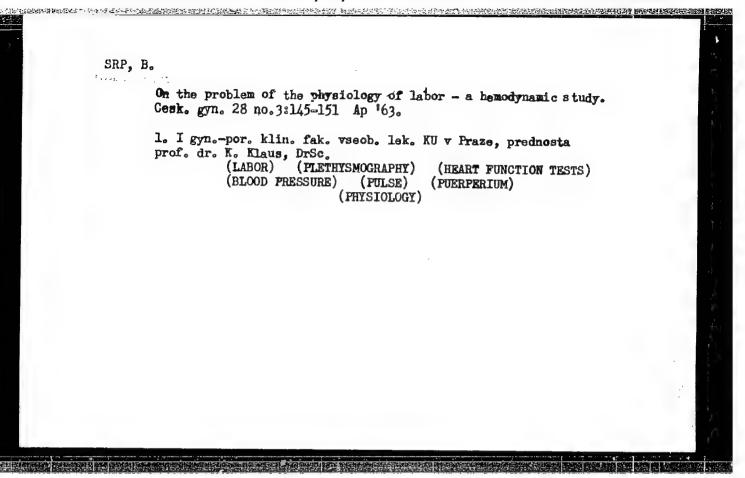
(CHILD PSYCHOLOGY) (PEDIATRICS)

SRP, L.

The significance of the effect of environment in the limitation of movement. Cesk. pediat. 18 no.4:304-306 Ap '63.

1. II detska klinika fakulty detskeho lekarstvi KU v Praze, prednosta prof. dr. J. Houstek.

(MOVEMENT) (ENVIRONMENT) (PEDIATRICS)

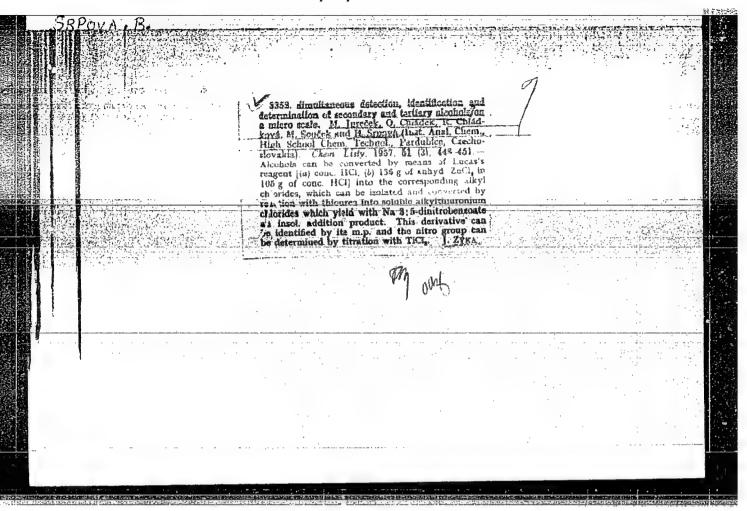


DOLEZAL, Zdenek; SRP, Emil

Meeting of the Standardization Group of the Permanent Coal Commission of the Council for Mutual Economic Assistance. Uhli 5 no.3:101-102 Mr 163.

1. Ministerstvo paliv.

100



CZECHOSLOVAKIA / Analytical Chemistry,

Analysis of Organic Substances.

E-3

Abst Jour : Ref. Zhur - Khimiya, No 2, 1958, 4350

Author: Yurechek, Khladek, Khladkova, Souchek, Srpova,

Title : Simultaneous detection, Indentification and Determination

of Secondary and Tertiary Alcohols by a Micromethod.

Orig Pub : Chem. listy, 1957, 51, No. 3, 448-451.

Abstract : The alcohol under investigation is converted

into the corresponding alkyl chloride by means of the Lucas reagent (conc. Hcl, sp. gr. 1.19 or the solution of 136 g. of anhydrous ZnCl<sub>2</sub> in 105 cc. conc. Hcl). The separated alkyl chloride

is converted with thioura (1) into a soluble alkyl thiuronium chloride. After Neutralization

E-3

CZECHOSLOVAKIA/ Analytical Chemistry

Analysis of Organic Substances.

Abs Jour ;

Ref Zhur - Khimiya No. 2, 1958, 4350

with CH3COONa it is converted by the action of sodium 3,5-dinitrobenzoate 11 (11) into an insoluble alkyl thiuronium 3,5-dinitrobenzoate. The salt is recrystallyzed from C2H5OH solution and its nitro groups are determined by titration with an excess of approximately a .4N solution of TiCl3, 0.05N solution of NH4Fe(SO4)2 using NH4SCN as indicator. A blank determination is required. The melting point of the derivative is determined at the same time. Int the reaction of alkyl chlorides with (1) or (11) the addition of KI is expedient. The method is not suitable for pentanol-3, 2,3-dimethyl pentanol-3, cyclohexanol and triphenylcarbinol.

PFNKA, Miroslav; GRFOVA, Jirina

Contribution to the study of heterogeneity in the leaves of a spring wheat plant. Biologia plantarum 7 no.1:20-30 '65.

1. Chair of Forest Botany and Plant Ecology of the Faculty of Forestry of the Higher School of Agriculture, Enc., Zemedelska 3. Submitted May 19, 1964.

#### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP

CIA-RDP86-00513R001652810003-5

L 02247-67 ARG/ESS-2/FRO/ETP(c)/ETP(h) DE/WW ACC NR: AP6020194 SOURCE CODE: YU/0009/65/000/006/0600/0610

AUTHOR: Sršen, Miljenko (Colonel)

ORG: none

TITLE: Certain problems of organization and joint action of field forces and territorial air defense

SOURCE: Vazduhoplovni glasnik, no. 6, 1965, 600-610

TOPIC TAGS: air defense system, air defense tactic, armed force organization

ABSTRACT: In connection with an earlier article by S. Roglic (VG br. 5/65), the author points out that Roglic discusses interesting questions in connection with air defense but does not deal with peculiarities encountered in smaller countries and small battlefield areas. Consequently, the topic is discussed from the viewpoint of smaller territories where territorial air defense may overlap the strategic combat zone. The problem of combat zone-territorial defense overlap involves the methods of organization of territorial air defense, and even more of the command structure, grouping, and joint operation of various types of units. Orig. art. has: 1 figure.

SUB CODE: / 15/ SUBM DATE: none

Cerd 1/1 /1/-

SRSEN, S.

The Diesel-electric-suction dredger.

p. 25 (CHECHOSLOVAK HEAVY INDUSTRY) No. 7, 1956, Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

SRSEN, STEFAN

SRSEN, Stefan, MUDr, as. det. klin. Kosice

Pediatrician's work at the obstetrical ward. Cesk. gyn. 19 no.4:
288-291 July 54.

(PEDIATRICS

pediatrician's work at obstetrical ward)

DEMANT, F., Doc., Dr.; NEUBAUER, Ed., doc., Dr.; SESEN, St., as., Dr.;
TISCHLER, V., as., Dr.;

Question of the internal environment of healthy newborn.
Cesk. pediat. 12 no.5-6:430-435 May-June 57.

1. Detska klinika lekarskej fakulty KU v Kosiciach (prednosta doc. Dr. F. Demant) a nefrologicke laboratorium internej kliniky (prednosta doc., Dr. F. Por).

(INFANT, NEWBORN, physiol.
internal environment (Cz))

 DEMANT, F.; NEURAUER, E.; SESEN, S.; TISCHLER, V.

Studies on formation of antidiuretic hormone in a normal newborn, Cenk.
fysiol. 7 no.3:286-287 May 58.

1. Detska klinika LFUK, interna klinika LFUK v Kosiciach,
(VASOPRESSIN, in blood,
in newborn (Cz))
(INFANT, NEWBORN,
blood vasopressin content (Cz))

 A review of the clinical symptomatology of central nervous system damage

1. Detska klinika LFUK v Kosicach, prednosta doc. Dr. F. Demant. (CENTRAL NERVOUS SYSTEM, dis. acquired & congen. in newborn inf. (Cs)) (INFANT, NEWBORN, dis. CMS disord., acquired & congen. (Cs))

in newborn infants. Cesk. pediat. 8 no.6:520-528 5 July 58.

BARDOSOVA, G.; SRSEN, S.

Results of a prolonged follow-up of the development after perinatal injuries. Cesk.pediat.16 no.3:208-215 Mr '61.

1. Detska klinika lek. fakulty University P.J. Safarika v Kosiciach, prednosta prof. MUDr. F. Demant.
(BIRTH INJURY)

 SRSEN,S.; FRIC,I.

Report on some congenital defects from material of the Obstetrical Department in Kosice during the period 1958-1962. Cesk.pediat. 19 no.3:198-203 Mr\*64

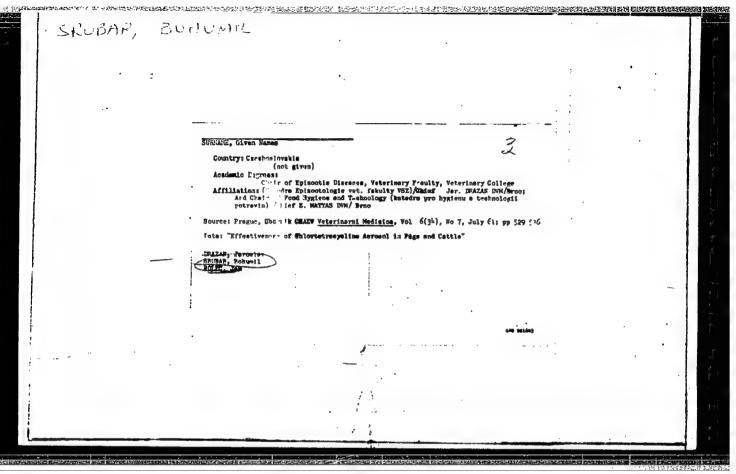
Congenital cystic formations in the gastrointestinal tract. (Duplication of the gastrointestinal tract). Ibid.:220-222

1. Porodnicko-gynekologicka klinika Lekarskej fakulty UPJS v Kosiciach (prednosta: doc.dr.K.Poradovsky, CSc.) a Detska klinika Lekarskej fakulty UPJS v Kosiciach (prednosta:prof.dr. F.Demant).

#### SRSEN, S.

Analysis of cases with intracranial bleeding in newborn infants with special reference to maturity and prematurity. Bratisl. lek. listy 45 no.7:424-435 15 0 165.

1. Detska klinika Lek. fak. Univerzity P.J. Safarika v Kosiciach (veduci prof. MUDr. F. Demant).



#### CZECHOSLOVAKIA

SRUBAR, B.; JIRANOVA, M.; Veterinary Faculty, College of Agriculture (Veterinarni Fakulta VSZ), Brno; Bioveta, National Enterprise (n.p.), Terezin.

"Contribution to the Study of Specific Colostral Immunity of Calves Born From Cows Vaccinated Against the Foot-and-Mouth Disease."

Prague, Veterinarni Medicina, Vol 11, No 5, May 66, pp 303 - 310

Abstract /Authors' English summary modified 7: Transmission of immunity from cows to calves was studied in 1,2 cows and 31, calves. Vaccination using 20 ml of adsorbate vaccine caused a rise in the level of virus-neutralizing antibodies, maintained for about one year. After parturition the level of antibodies in the colostrum is higher than in blood serum of the cows; the high level lasts for 7 days. The antibodies are transmitted to calves only by the colostrum, and they can be found in the calves only after they drank the colostrum. High levels in the blood of the calves result in longer lasting immunization, when compared to low levels. 2 Tables, 7 Western, 1 Russian reference. (Manuscript received 30 Dec 65).

SRUBAR, J., inz.; PESAT, Valentin

Should we study? El tech obzor 53 no.ll:Suppl:Zpravy 53 no.ll: 242-243 '64.

1. Technical and Economic Information Department of the Vitkovicke zelezarny Klementa Gottwalda National Enterprise, Ostrava 31.

SHUBAR, T. . . . . . TENAT, V.

Follow continuously and systematically domestic and foreign technical literature. Uhli 6 no.10:360 0 '64.

1. Technical and Economic Information Department of the Titkovicke zelezarny Klementa Gottwalda National Enterprise, Ostrava.

SRUBASOVSKIY, G.; AYZENSHTEYN, I.

Integrated brigades. Avt.transp. 41 no.2:8-9 F '63.
(MIRA 16:2)

(Transportation, Automotive)

SRUBIENE, R.

Early antibacterial therapy of exposed children in the city of Kaunas and its reults. Sveik. apsaug. 9 no.3:33-36 Mr. 64.

1. Kauno tuberkuliozes dispanserio vaiku skyrius.



GOL'DINOV, A.L.; LUKHOVITSKIY, V.I.; SRUBINSKAYA, G.Z.

Determination of water with the use of calcium hydride. Zhur.anal.khim. 17 no.4:532-534 Jl '62. (MIRA 15:8)
(Water) (Calcium hydride)

 25779 5/020/61/139/002/009/017 B104/B205

24,4200

AUTHORS:

Srubshchik, L. S., and Yudovich, V. I.

TITLE:

The asymptotic behavior of equations for a large deflec-

tion of an axisymmetric, loaded plate

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 139, no. 2, 1961,

341 - 344

TEXT: A study has been made of the system

 $Av - \frac{u^2}{2} = 0$ ,  $\varepsilon^2 Au + uv + \varphi(\rho) = 0$ ,  $A() = -\rho \frac{d}{d\rho} \frac{1}{\rho} \frac{d}{d\rho} \rho()$ 

of non-linear differential equations with one of the boundary conditions

$$v|_{\rho=1}=T>0, \quad u|_{\rho=1}=0;$$

$$\frac{dv}{d\rho} - \frac{\sigma}{\rho} v \Big|_{\rho=1} = 0, \quad u \Big|_{\rho=1} = 0; \tag{2b}$$

Card 1/8

The asymptotic behavior of ...

25779 S/020/61/139/002/009/017 B104/B205

$$\frac{dv}{d\rho} - \frac{\sigma}{\rho} v \Big|_{\rho=1} = 0, \quad \frac{du}{d\rho} + \frac{\sigma}{\rho} u \Big|_{\rho=1} = 0; \qquad (2c)$$

$$v \Big|_{\rho=1} = 0, \quad u \Big|_{\rho=1} = 0; \qquad (2d)$$

$$\frac{v}{\rho} \Big|_{\rho=0} < \infty, \quad \frac{u}{\rho} \Big|_{\rho=0} < \infty \quad \left(0 < \sigma < \frac{1}{2}\right).$$

These differential equations describe a large deflection of an axisymmetric loaded plate. Here, v is a radial force, and  $u = dw/d\varrho$ , where w denotes the deflection of the plate. The boundary conditions (2) correspond to different modes of fixing of the plate. The quantity  $\epsilon^2 = h^2/12(1-\delta^2)r_4^2$ 

characterizes the relative thickness of the plate, h is its thickness.

r<sub>1</sub> the external radius, and 6 Poisson's ratio.  $\phi(\zeta) = \frac{1}{Eh} \int q(t)tdt$ , where  $q(\zeta)$  stands for the intensity of normal load. In addition, the equations of a membrane

Card 2/8

The asymptotic behavior of ...

25779 S/020/61/139/002/009/017 B104/B205

$$A v_0 - \frac{u_0^2}{2} = 0, \quad u_0 v_0 + \varphi(y) = 0$$

 $(\varepsilon = 0)$  with the proper boundary conditions

$$\begin{aligned} v_0|_{\rho=1} &= T; \\ \frac{dv_0}{d\rho} - \frac{\sigma}{\rho} v_0|_{\rho=1} &= 0; \\ \frac{dv_0}{d\rho} - \frac{\sigma}{\rho} v_0|_{\rho=1} &= 0; \\ v_0|_{\rho=1} &= 0; \end{aligned}$$

are discussed. The boundary problem (1)-(2) is studied for  $\varepsilon \longrightarrow 0$ . Asymptotic representations of the solution are presented for  $\varepsilon \longrightarrow 0$ .

Card 3/8

45

The asymptotic behavior of ...

<sup>25779</sup> s/020/61/139/002/009/017 B104/B205

and it is shown that for  $\varepsilon \longrightarrow 0$ , the solution of the problem converges, uniformly toward the solution of the problem (3)-(4) in any inner range from [0,1], and that the behavior of a solution of (1)-(2) in the neighborhood of the point  $\zeta = 1$  corresponds to a boundary layer. For the particular case of condition (2B), an asymptotic representation of the solution has been given for q = const (Sborn. Teoriya gibkikh i kruglykh plastinok, IL, 1957; E. Bromberg, Comm. Pure and Appl. Math., 2, no. 4, 633 (1956)). The solutions of (1) are presented in the asymptotic form

$$\eta = \sum_{s=0}^{n+2} e^{s} v_{s} + \sum_{s=0}^{n+3} e^{s} h_{s} + \sum_{s=0}^{n+4} e^{s} \alpha_{s}^{2} + R_{n}, 
u = \sum_{s=0}^{n} e^{s} u_{s} + \sum_{s=0}^{n} e^{s} g_{s} + \sum_{s=0}^{n} e^{s} \beta_{s} + S_{n}.$$
(5)

The functions  $v_s(\zeta)$  and  $u_s(\zeta)$  are obtained by the first iteration process

Card 4/8

The asymptotic behavior of ...

25779 s/020/61/139/002/009/017 B104/B205

using the terminology introduced by M. I. Vishik et al. (DAN,  $\underline{121}$ , no. 5, 778, (1958)).  $g_s$  and  $h_s$  are determined by the system

$$\frac{d^{3}h_{i}}{dt^{2}} = 0, \quad h_{i}|_{t=0} \quad (i = 0, 1);$$

$$\frac{d^{3}h_{a+2}}{dt^{2}} = R_{1}h_{s+1} + R_{2}h_{s} - \sum_{k+j+l=s} t^{i}u_{kl}g_{j} + \sum_{k+j+l=s} t^{l+3}u_{kl}g_{j} - \frac{1}{2} \sum_{j+l=s} g_{j}g_{l} + \frac{1}{2} \sum_{j+l=s} tg_{j}g_{l},$$

$$\frac{d^{3}g_{s}}{dt^{2}} - v_{00}g_{s} = R_{1}g_{s-1} + R_{2}g_{s-2} + \sum_{k+j+l=s} t^{l}v_{kl}g_{j} - \sum_{k+j+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{j+m=s} g_{j}h_{m} - \sum_{j+m+1=s} tg_{j}h_{m} + \sum_{k+m+l=s} t^{l}u_{kl}h_{m} - \sum_{k+m+l+s=l} t^{l+1}u_{kl}h_{m},$$

$$\frac{d^{3}h_{a+2}}{dt^{2}} - v_{00}g_{s} = R_{1}g_{s-1} + R_{2}g_{s-2} + \sum_{k+j+l=s} t^{l}v_{kl}g_{j} - \sum_{k+j+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{k+m+l+s=s} t^{l}u_{kl}h_{m} - \sum_{k+m+l+s=l} t^{l+1}u_{kl}h_{m},$$

$$\frac{d^{3}h_{a+2}}{dt^{2}} - \sum_{j+l=s} t^{l}u_{kl}g_{j} + \sum_{k+l+l=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+l+1=s} t^{l+3}v_{kl}g_{j} + \sum_{k+l+l+1=s} t^{l}v_{kl}g_{j} - \sum_{k+l+1=s} t^{l}v_{kl}$$

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25779. \$/020/61/139/002/009/<del>0</del>17 B104/B205

The asymptotic behavior of ...

This set of linear differential equations has constant coefficients and the boundary conditions  $g_s|_{t=0} = -u_{so}$ ;  $g_s|_{t=\infty} = 0$ ;  $h_{s+2}|_{t=\infty} = 0$ . One obtains  $g_o(\zeta) = -u_{so} \exp(-\sqrt{T(1-\zeta)}/\xi)$ , i. e.,  $g_o$  is a function of a zero-order boundary layer. The convergence is proved by setting  $\phi_k = v - R_k$  and  $\psi_k = u - S_k$  and using the estimate

$$A (v - \varphi_{h}) - \frac{1}{2} (u^{2} - \psi_{h}^{2}) = O(\rho e^{h+1}) *,$$

$$e^{2}A (u - \psi_{h}) + (uv - \varphi_{h}\psi_{h}) = O(\rho e^{h+1}).$$
(12).

Lemma 1 by N. F. Morozov (DAN, 123, no. 3, 417 (1958)) is mentioned:  $v \ge 0$  holds for the solution of the problem (1)-(2). Lemma 2: For sufficiently small  $\varepsilon$  (0<  $\varepsilon$ < $\varepsilon$ <sub>1</sub>) one obtains for all  $\varepsilon$  (0,1]: 1)  $\varphi_k \ge 0$ ; 2)  $\min(\varphi_k/\zeta)$  T/2. Lemma 3: The energy estimate

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The asymptotic behavior of ...

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$$\int_{0}^{1} \left| \frac{dR_{k}}{d\rho} \right|^{2} d\rho + \frac{1}{2} \int_{0}^{1} \frac{R_{k}^{2}}{\rho^{2}} d\rho + e^{2} \int_{0}^{1} \left| \frac{dS_{k}}{d\rho} \right|^{2} d\rho + \frac{e^{2}}{2} \int_{0}^{1} \frac{S_{k}^{2}}{\rho^{2}} d\rho + \frac{T}{4} \int_{0}^{1} S_{k}^{2} d\rho \leqslant Ce^{k+1} \int_{0}^{1} (|R_{k}| + |S_{k}|) d\rho.$$
(13)

holds for  $R_k$  and  $S_k$ . Theorem 1: For the problem (1)-(2a) there exists an asymptotic representation (5), where the estimates

$$\max_{0 \le \rho \le 1} |R_k(\rho)| \le C_1 e^{k+1}, \quad \max_{0 \le \rho \le 1} |S_k(\rho)| \le C_2 e^{k+1/s} \quad (k = 0, 1, 2, 3, ..., n); (14)$$

$$\max_{0 \le \rho \le 1} \left| \frac{dR_k}{d\rho} \right| \le C_3 e^{k+1} \quad (k = 0, 1, 2, ...);$$

$$\max_{0 \le \rho \le 1} \left| \frac{dS_k}{d\rho} \right| \le C_4 e^{k-1} \quad (k = 2, 3, ...); \tag{15}$$

Card 7/8

The asymptotic behavi	or of	B104	0/61/139/002/ /B205	009/017	
nd	$\max_{0 \le o \le 1} \frac{d^2 R_k}{d\rho^2}$	$\bigg  \leqslant C_5 e^{k-1/s}  (k=1)$	, 2,);		40
· ·	$\max_{0 \le \rho \le 1} \left  \frac{d^3 S_k}{d \rho^3} \right $	$\left  \leqslant C_5 e^{k-3/\epsilon}  (k=1) \right  \leqslant C_6 e^{k-3/\epsilon}  (k=3)$	3, 4,).	(16)	
re valid for R and s	S It is furth	er shown that	representati	070 06:	
K	k	or prown one		ous of.	A to 1
ne form (5) are corre	ect also for the	other cases	of the proble	ms dis-	45
he form (5) are corrected here. This won roblems, Rostovskiy-reference	ect also for the rk was carried or as Dony university	other cases out at the Semi	of the problemar on Non-1	ms dis-	and the same of th
ne form (5) are corressed here. This won roblems, Rostovskiy-r nere are 10 reference	ect also for the rk was carried or as Dony university	other cases out at the Semi tet (Rostov-na oc and 1 non-S	of the problemar on Non-1 -Donu Universoviet-bloc.	ms dis-	45 50
ne form (5) are corressed here. This won roblems, Rostovskiy-reference are 10 reference RESENTED: February	ect also for the rk was carried on a Donu universies: 9 Soviet-bloom 24, 1961, Yu. N.	other cases out at the Semi tet (Rostov-na oc and 1 non-S	of the problemar on Non-1 -Donu Universoviet-bloc.	ms dis-	and the same of th
ne form (5) are corressed here. This won roblems, Rostovskiy-r nere are 10 reference	ect also for the rk was carried on a Donu universies: 9 Soviet-bloom 24, 1961, Yu. N.	other cases out at the Semi tet (Rostov-na oc and 1 non-S	of the problemar on Non-1 -Donu Universoviet-bloc.	ms dis-	and the same of th
ne form (5) are corresponding to the corresponding	ect also for the rk was carried on a Donu universies: 9 Soviet-bloom 24, 1961, Yu. N.	other cases out at the Semi tet (Rostov-na oc and 1 non-S	of the problemar on Non-1 -Donu Universoviet-bloc.	ms dis-	and the same of th

S/040/62/026/005/009/016 D234/D308

AUTHORS:

Srubshchik, L. S. and Yudovich, V. I. (Rostov-on-Don)

TITLE:

Asymptotic integration of the system of equations of large sagging of symmetrically loaded shells of revo-

lution

PERIODICAL:

Prikladnaya matematika i mekhanika, v. 26, no. 5, 1962,

913-922

TEXT: The authors consider the behavior of the equations of this problem for  $\varepsilon \to 0$ ,  $\varepsilon^2$  being the parameter which characterizes the relative thinness of the walls. Equations

of the membrane problem are analyzed and it is proved that they Card 1/3

Asymptotic integration of ...

S/040/62/026/005/009/016 D234/D308

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have only one positive solution. The solutions of the shell equations are expanded in powers of  $\varepsilon$  and it is proved that they have only one membrane solution (using Kantorowich's theorem on the convergence of Newton's method). The asymptotic formula for the solution is

$$v = \sum_{s=0}^{n+1} \xi^{s} v_{s} + \sum_{s=0}^{n+1} \xi^{s} h_{s} + \sum_{s=0}^{n+1} \xi^{s} \alpha_{s} + x_{n}$$

$$u = \sum_{s=0}^{n} \ell^{s} u_{s} + \sum_{s=0}^{n} \ell^{s} g_{s} + \sum_{s=0}^{n} \ell^{s} g_{s} + z_{n}$$

(3.1)

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Asymptotic integration of ...

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 $v_s$ ,  $u_s$ ,  $h_s$ ,  $g_s$  (s = 1,2,...) are determined successively, starting with  $v_0$ ,  $u_0$  which constitute the positive solution of the membrane problem (1.3). The rest terms are estimated.

ASSOCIATION: Rostovskiy universitet (Rostov University)

SUBMITTED: June 2, 1962

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<u>L 11178-63</u> EWP(r)/EWT(d)/EWT(m)/FCC(w)/BDS--AFFTC--IJP(C)/EM ACCESSION NR: AP3001143 S/0199/63/004/003/0657/0672

57

AUTHOR: Srubshchik, L. S.; Yudovich, V. I.

TITLE: The Asymptotics of the equation for a great deflection of a circular symmetrically-loaded plate

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 4, no. 3, 1963, 657-672

TOPIC TAGS: thin plate, deflection of plate, edge conditions, von-Karman equations, asymptotic solutions, precision-instrument design

ABSTRACT: This theoretical paper deals with the problem of the boundary effect, consisting in a rapid change of stresses and strains, in severely deflected thin plates in which the bending moments are small and the plate behaves as a membrane everywhere except in a thin layer close to the boundary. Such phenomena are generally described by means of <u>differential equations</u> with a small parameter before the higher derivatives, where the relatively thin thickness of the plate serves as the small parameter. As a result, the problem of the construction of asymptotic solutions arises. The present paper examines the von-Karman equations for great deflections of a circularly-symmetrical loaded plate. The asymptotic concepts developed in this paper can be applied in the approximate calculation Cord 1/2

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ACCESSION NR: AP3001143

of circular, axially-symmetrical, loaded plates, such as are frequently encountered in practical problems of precision instrument making. The paper comprises the construction of the asymptotics, the membrane equations, and a substantiation of the asymptotic expansion employed. The method employed here permits also the examination of the equations of great deflections of annularly-shaped plates, in which different edge conditions are prescribed for the inner and the outer edges of the plate. For example, the inner edge of such a plate can be firmly fixed, whereas the outer edge is rigidly clamped and a radial tensile stress is applied.

ASSOCIATION: Rostovskiy universitet (University of Rostov) at the time of compilation of paper

SUBMITTED: 15Aug61

DATE ACQD: 01Jul63

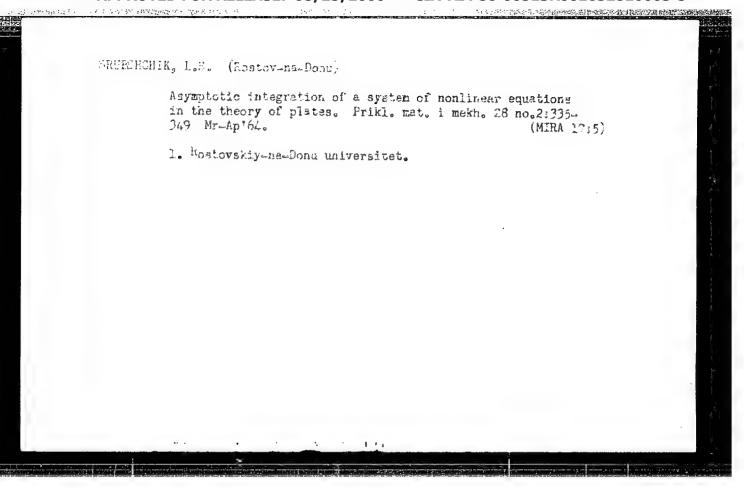
ENCL: 00

SUB CODE: MM, AP

NO REF SOV: 013

OTHER: 002

ch 2/2



SECESSIONIE, 1.3. (Rostor-me-Dyru)

Cirialar plates under the action of distroctinuous loads. Frikl.
mat. 1 mekh. 28 no.6:1024-1032 N-0 164 (HERA 18:2)

L 23438-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m)-6 IJP(c) WW/EM

ACC NR: AP6007582

SOURCE CODE: UR/0040/66/030/001/0116/0123

AUTHORS: Grubshchik, L. S. (Rostov-na-Donu); Yudovich, V. I. (Rostov-na-Donu)

ORG: none

35

TITLE: A note on the reliability of membrane solutions in the nonlinear theory of plates and shells 16

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 1, 1966, 116-123

TOPIC TAGS: shell, shell theory, stability condition, membrane, mathematical analysis, plate stability, Lyapunov function

ABSTRACT: A plate of arbitrary form under the effect of given normal loading and edge forces and a sloping shell under the effect of external forces are studied in regard to the application of membrane solutions. It is shown that the membrane solution of these problems yields minimum potential energy and is thus a stable solution. The system of nonlinear Karman equations of the theory of stiff plates is given as

$$\Delta^{2}F + w_{xx}w_{yy} - w_{xy}^{2} = 0$$

$$8^{2}\Delta^{2}w - w_{xx}F_{yy} - w_{yy}F_{xx} + 2w_{xy}F_{xy} - q = 0$$

with boundary conditions

$$w_{\mathbf{r}} = 0, \qquad w_{\mathbf{r}}|_{\mathbf{r}} = 0$$

$$|F_{\uparrow\uparrow}|_{\Gamma} = T(A) > 0, \quad |F_{n\tau}|_{\Gamma} = S(A) \quad (A \in \Gamma),$$

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ACC NR: AP6007582

where

$$F = \frac{F_1}{Ea^2}, \quad w = \frac{w_1}{a}, \quad q = \frac{q_1a}{Eh}, \quad 8^2 = \frac{h^2}{12(1-\mu^2)a^2}$$

$$x = \frac{x_1}{a}, \quad y = \frac{y_1}{a}, \quad n = \frac{n_1}{a}, \quad \tau = \frac{\tau_1}{a} \quad \left(0 < \mu < \frac{1}{2}\right).$$

 $F_1$  is the stress function,  $w_1$  is the deflection of points on the median surface,  $q_1$  is the transverse loading intensity, k is the plate thickness, E is Young's Modulus,  $\mu$  is Poisson's coefficient,  $(x_1, y_1)$  are rectangular coordinates,  $\Gamma$  is the boundary of the singly-linked region  $\Omega$ , a is the diameter of the region,  $n_1$  and  $\mathcal{T}_1$  are, respectively, the normal and tangential stresses at the edge, and  $F_{\mathcal{T}_1}$  (A) and  $F_{\mathcal{T}_1}$  (A) are the normal and tangential components of external force applied to the edge of the plate. The potential energy functional is given by

$$J(w) = \frac{e^{3}}{2} \int_{\Omega} [(\Delta w)^{3} - 2(1 - \mu)(w_{xx}w_{yy} - w_{xy}^{3})] dx dy - \frac{1}{2} \int_{\Omega} [(\Delta F)^{3} - 2(1 + \mu)(F_{xx}F_{yy} - F_{xy}^{3})] dx dy + \frac{1}{2} \int_{\Omega} [F_{xx}w_{y}^{3} + F_{yy}w_{x}^{3} - 2F_{xy}w_{x}w_{y}] dx dy - \int_{\Omega} qw dx dy,$$

the authors show that the second variation of the functional J for the membrane solution is positive. For the case of the shell rotation the J functional is given by

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ACC NR: AP6007582

$$J(u_0) = \frac{e^2}{2} \int_0^1 \left(\rho u_{0\rho}^2 + \frac{u_0^2}{\rho}\right) d\rho + \frac{1}{2} \int_0^1 \left(\rho v_{0\rho}^2 + \frac{v_0^2}{\rho}\right) d\rho - \frac{\mu}{2} v_0^2 (1) + \int_0^1 \phi_0(\rho) u_0 d\rho d\rho$$

where v and  $\emptyset$  are polar coordinates. This is also shown to be nonnegative and the corresponding stationary solution shown to be stable. Converse cases are also considered and three concrete examples are given. Orig. art. has: 66 equations.

SUB CODE: 20, 12/ SUBM DATE: 200ct65/ ORIG REF: 014/ OTH REF: 002

Card 3/3 FV

### "APPROVED FOR RELEASE: 08/25/2000

### CIA-RDP86-00513R001652810003-5

L 16193-65 EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pt-10/Pu-4 ESD(gs)/ ESD(t)/AEDC(a)/AFWL/ASD(f)-2/AFETR/AFTC(a) JD/WW/JG ACCESSION NR: AP5000273 S/0040/64/028/006/1024/1032

AUTHOR: Srubshchik, L. X. (Rostov-

TITLE: Circular plates under discontinuous loading

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 6, 1964, 1024-1032

TOPIC TAGS: circular plate, plate flexure, circular plate flexure, discontinuous loading

ABSTRACT: The flexure of circular plates under partial concentric circular loading is discussed. It is proven by means of asymptotic methods that an "internal" boundary layer (similar to that caused by the edge effect) is formed in the vicinity of the circumference of the circle where the load is discontinued. Solutions of the problem in asymptotic formulation are obtained and substantiated, and can be used in designing circular plates under discontinuous loading. A system of Karman equilibrium equations for a symmetrically loaded circular plate built—in along its circumference is taken as the initial equations with displacement components used in asymptotic

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ACCESSION NR: AP5000273

form. The procedure of calculation for different boundary conditions (simply supported or hinged plates) is indicated. The theory is illustrated by a sample analysis of the flexure of a circular plats clamped along its edge (radius R) and subject to a concentric, uniform, continuous load over a circle of a radius smaller than R. Orig. art. has: 4 figures, 44 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 20Jun64

ENCL:

SUB CODE: AS, ME

NO REF SOV: 005

OTHER: 002

ATD PRESS: 3146

ABRIKOSOV, A.I., akademik, redaktor; SRUKOV, A.I.

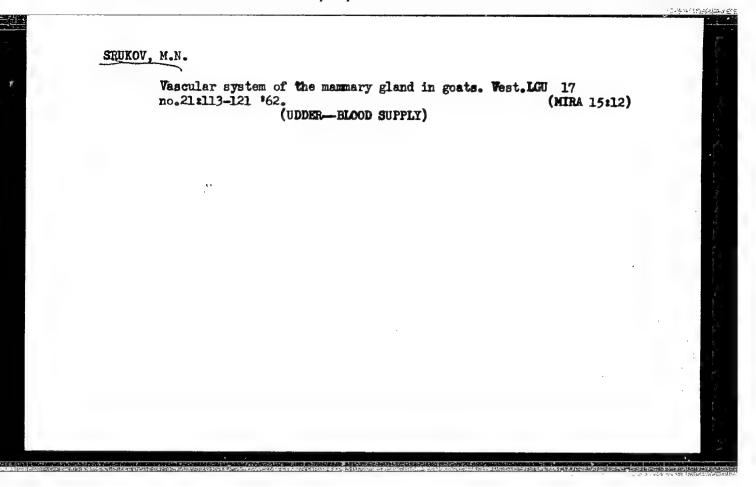
To Academician A.I. Abrikosov, editor of the journal "Arkhiv Patologii." Arkh.pat. 15 no.1:91-96 Ja-F '53. (MLRA 6:5)

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AN SSSR im. N.S. Kurnakova.

(Chromium compounds) (Cobalticinium compounds)

(Chromium)

### SRUTA, Jaroslav

Let us mobilize all forces for further evolution of the socialist society and for its preparation to be converted to communism. Cesk. zdrav. 10 no.9:425.162.

1. Vedouci odboru zdravotnictvi UV KSC.
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Evaluation of experiences and results of the streamline method of construction of industrial buildings. p. 176. (Pozemni Stavby, Vol. 5, No. 4, Apr 1957, Praha, Czechoslovakia)

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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5. No. 6. June 1956, Uncl.

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Contribution to the article by Jaroslav Simecek "Safety Valves of Steam Turbines." p. 232. ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavni sprava elektraren) Praha. Vol. 6, no. 5, May 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

CZECHOSLOVAKIA

SRUTEK, J.; [Affiliation not given].

"The Task of Psychical Hygiene in the framework of Hygiene of Work." Notes to Article by Prof. Dr. E. Guensberger.

Prague, Pracovni Lekarstvi, Vol 15, No 9, 1963, pp 393 - 394

Abstract: The field of hygiene of work has changed drastically in the last 50 years. The changes are due both to sociological and technical reasons. To deal with all the modern problems psychiatric work is needed as well as medical care proper. There is also need for work psychology to provide congenial surroundings for the work. Too much importance is attached by the individual to his earning ability and not enough to the cultural aspects of his work. The medical, physiological, psychiatric, and sociological care for the worker requires collaboration with the production supervisors. The economists and planning personnel must be educated by medical people to plan for improved standards of health of their employees. No references.

1/1

- 24 -

SRUTAK, J. MUDr

Observations of workers exposed to heat wi's special reference to vitamin C level in blood and vitamin C secretion in urine. Pracovni lek. 7 no.4:206-214 Jy 155.

CHUDACEK, Frant., MUDr.; SRUTEK, Josef, MUDr.

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1. Zavodni ustav narodniho zdravi pri Leninovych savodech v Plzni, reditel MUDr. Fr. Chudacek. (INSUSTRIAL HYGIENE, health centers in indust. in Czech. (Cz))

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Chronic inflammation of the respiratory tract and pulmonary emphysema in industrial workers. Pracovni lek. 10 no.2:156-162 May 58.

1. Vnitrní oddelení ZUNZ v Plzni, prednosta prim. MUDr. J. Sramek. J.S., Plzen, Gorkeho 5.

(EMPHYSEMA, PULMONARY, diagnosis

screening of indust. workers (Gz))

(RESPIRATORY TRACT, diseases

chronic inflamm., screening of indust. workers (Cz))

(INDUSTRIAL HYGIENE,

screening of workers for pulm. emphysema & inflamm. of resp. tract (Gz))

SRUTEK, Josef

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1. ZUNZ Plaen.
(BODY TEMPERATURE)

SHUTEK, Josef; HUZL, Frantisek

Hygienic problems in accurate casting by the method of the dissolvable wax model. Frac. lek. 17 no.1:16-18 Ja '65

1. Odbor hygieny prace , Krajska hygienicke-epidemiologicka stanice v Plzni (vedouci: MUDr. J. Erutek) a Oddeleni chorob z povolani a prumyslove toxikologie SFN v Plzni (vedouci: MUDr. F. Huzl, CSc.)

SRUTEK, Josef, MUDr. (Plzen, Puskinova 6)

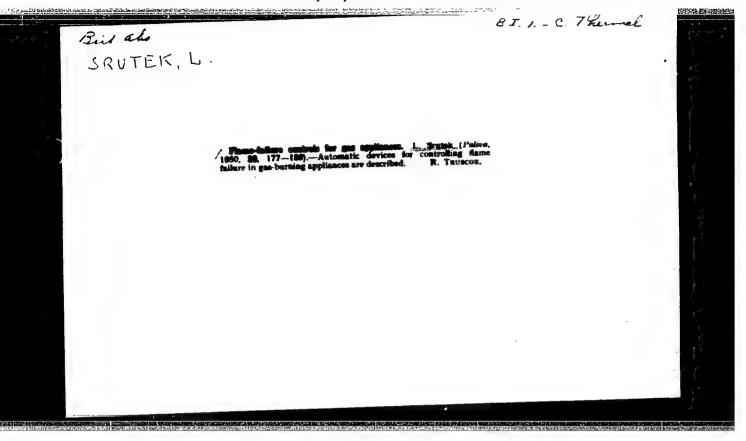
Review of noise in plants of the West Bohemian region. Prac. lek. 17 no.2:61-63 Mr. 65.

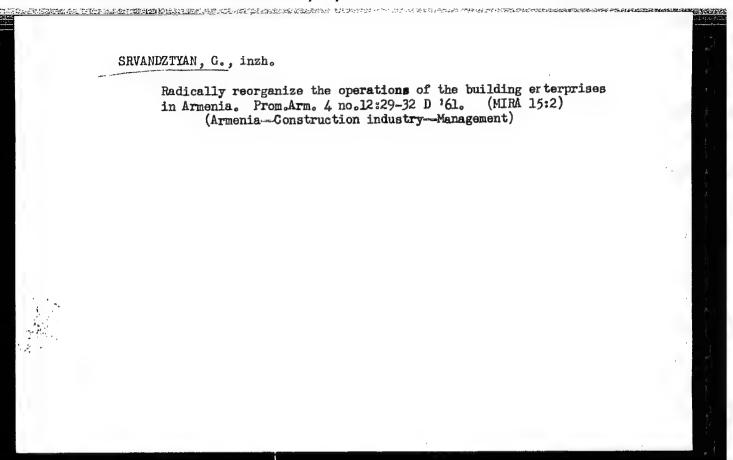
l. Krajska hygienicko-epidemiologicka stanice Zapadoceskeho kraje v Plzni.

SRUTEK, Josef

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(Electric welding) (Reinforced concrete)

### CIA-RDP86-00513R001652810003-5 "APPROVED FOR RELEASE: 08/25/2000

CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography.

: Ref Zhur - Fizika, No 6, 1959, 12995 Abs Jour

: Srytr, V1. Author

: Scientific Institute for Minerals, Turnov, Czechoslovakia

: Orientation of Crystals and Spectra Obtained from X-Ray Inst Title

Tubes.

Orig Pub : Jemna mech. a opt., 1958, 3, No 5, 160-161, 172

: Description of the construction of a Laue camera for re-Austract

flected and transmitted rays as a supplement to the "Mikrometa" x-ray apparatus manufactured by the Hirana Praha Plant. Results of the measurement of spectra obtained from tubes with copper, tungsten, and molybdenum

anti-cathodes are reported. Author's resumes.

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SOLC, I., dr.; SRYTR, Vl.

X-ray spectrometer for precision crystal grinding. Jemna mech opt 5 no.2:43-45 F 160.

1. Vyzkumny ustav pro mineraly, Turnov.

NESHUKAYTIS, V.V. [Nesukaitis, V.]; SRYUBAS, V.A. [Sriubas, V.]

Application of an electron-optical system of unfolding for automation of optical testing of paper. Liet ak darbai B no.3:183-188 '60.

(EBAI 10:3)

1. Institut energetiki i elektrotekhniki Akademii nauk Litovskoy SSR

(Paper)

SRYUBAYTE-GRUODENE, Ya. P., Cand Piol Sci — (diss) "Effect of heteroauxin der the motibolism in potatoes and the yield of tubers."

Vil'nyus, 1959. 27 pp (Min of Higher Education USSR. Vil'nyus

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#### SRYUBENE, R. M.

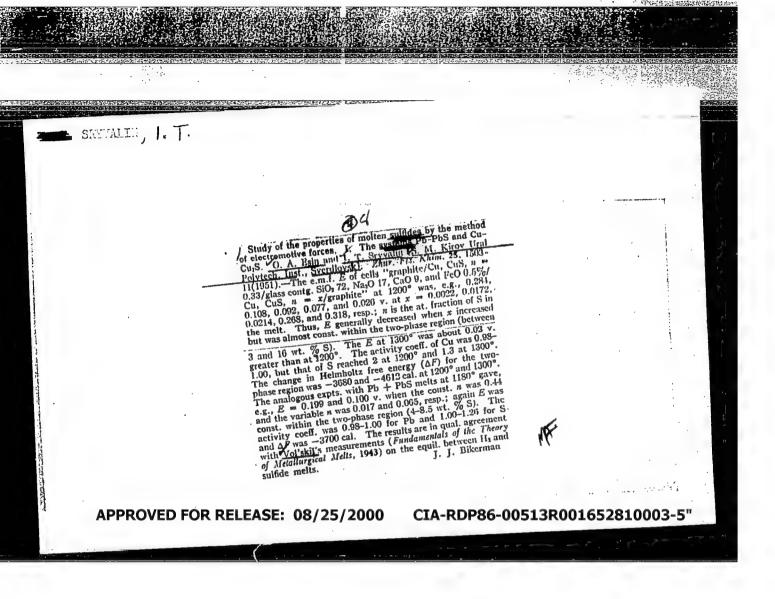
Use of chemioprophylaxis and chemotherapy in children with a cutireaction and in those in contact [with tuberculosis] in Kaunas. Probl. tub. 40 no.4:40-42 62. (MIRA 15:6)

1. Iz Kaunasskogo protivotuberkuleznogo dispansera Litovskoy SSR (glavnyy vrach Ya. V. Zhakovichayte, zav. detskim otdeleniyem F. P. Stashene, nauchnyy rukovoditel (- kandidat meditsinskikh nauk Yu. L. Gamperis)

(TUBERCULIN-TESTING) (KAUNAS-TUBERCULOSIS)
(CHEMOTHERAPY)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652810003-5



By the EMF Method. II. Systems Cu2S-Wi3S2 and Cu2S-FeS," I. T. Sryvalin, O. A. Yesin, Ural Poly-USSR/Ghemistry, Metallurgy - Copper, Mickel, "Investigation of the Properties of Molten Sulfides tech Inst imeni S. M. Kirov, Sverdlovsk of melts Cu2S-Ni3S2 (I) or Cu2S-FeS (II) (serving as electrodes) and liquid glass + Na2S functioning SRYVALIN, I. T. as electrolyte. Demonstrated that emr values change regularly with the compa of the melts and in accor-Measured emf values at 1,180°in systems consisting "Zhur Fiz Khim" Vol XXVI, No 3, pp 371-376 dance with their fusibility diagram. sulfur vapor pressures over melts and confirm the obtained are in agreement with data based on equil electrochem naturé of interaction between the rule of mixing, being higher than the latter with fur deviates from that calcd on the basis of the not behave like ideal solms: the activity of sulliquid matte and slag. The melts investigated do I and lower with II. Demonstrated that emf values change Iron Sulfides ÷,-The results 213T32 213132

SOV/137-57-10-18787

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 49 (USSR)

AUTHORS-Kuznetsov, S.I., Antipin, L.N., Sryvalin, I.T., Serebrennikova,

O.V., Derevyankin, V.A.

TITLE: Properties of Aluminate Solutions (Svoystva alyuminatnykh

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 58, pp 36-50

ABSTRACT: A study is made of the properties of aluminate solutions for density, viscosity, electrical conductivity (C) and surface tension. Subjected to the investigation were solutions containing  $^{-30-320}$  g  $^{\rm N_2O_{total}/liter}$  and  $^{\rm 15-320}$  g  $^{\rm Al_2O_3/liter}$ , with a basicity of 1.48-3.53. The solutions are made by dissolution of grade Aoo Al in chemically-pure caustic. These properties of the aluminate solutions are measured at 30, 40, 50, 60, and 80°C. Density is determined by pycnometer, viscosity by the Ostwald viscosimeter, and electrical conductivity by the Kohlrausch bridge. Surface tension is determined by the method of maximum pressure of air bubbles (the "Rebinder" instrument). An investigation of aluminate solutions of various molar Na<sub>2</sub>O<sub>total</sub> Al<sub>2</sub>O<sub>3</sub> ratios in accordance with strength show that

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Properties of Aluminate Solutions

at first specific C rises with Na<sub>2</sub>O concentration, attaining a maximum at 90-140 g  $Na_2O_{\rm total}/{\rm liter}$ , and then declines. The molar C of aluminate solutions drops smoothly as concentration rises. Molar C decreases with increasing Al2O3 concentration in the solution. As temperature rises, the C maximum shifts toward higher concentrations. The viscosity of aluminate solutions containing up to 100 g Na<sub>2</sub>O<sub>total</sub>/liter at various Al<sub>2</sub>O<sub>3</sub> concentrations is virtually the same as the viscosity of NaOH solutions of the same strengths. The high values of the molar C of aluminate solutions and the low values of the energies of activation bear witness to the fact that the predominant Na<sup>†</sup> solutions in dilute solutions are also accompanied by a smaller amount of OH. Viscosity is determined primarily by the large, and sluggish aluminate anions. As temperature rises, the density of the aluminate solutions shows a linear decrease. In dilute solutions, the energies of activation,  $\epsilon_{\text{N}}$  and  $\epsilon_{\text{n}}$  are 400-700 cal/mole, while in strong solutions they differ and depend upon the Na<sub>2</sub>O:Al<sub>2</sub>O<sub>3</sub> ratio. Surface tension rises with concentration and drops as temperature rises. Card 2/2

O.B.

KUZNETSOV, S.I.; SRYVALIB, I.T.; ANTIPIN, L.N.; MIKHALEVA, A.M.

Influence of admixtures on the properties of aluminate solutions.

Trudy Ural. politekh.inst. no.58:51-56 '57. (MIRA 11:4)

(Alkali metal aluminates)

TIKHONOV, A.I.; SMIRNOV, V.I.; SRYVALIN, I.T.

Decomposition kinetics of cobalt, nickel, and copper chlorides by oxygen. Trudy Ural. politekh.inst. no.58:167-176 '57.

(Cobalt chloride) (Nickel chloride) (MIRA 11:4)

(Copper chloride)

SOV/137-58-8-16387

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 23 (USSR)

Sryvalin, I.T., Nikitin, Yu.P., Khlynov, V.V. AUTHORS:

TITLE: Interphase Tension in Sulfide-slag Melts (Mezhfaznoye natya-

zheniye rasplavov sul'fid-shlak)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 67, pp 64-68

ABSTRACT: The interphase tension of sulfides on the boundary (B) with the slags (S) at 1200-1250°C was measured by means of X-ray photography of a drop. The Cu sulfide contained (here and further on in weight %) Cu 77.71, S 20.47, and Fe 1.82, while the Ni sulfide contained Ni 72.8 and S 25.7. The density of the sulfides and S was calculated approximately by the law of additivity from data relative to solid components. The calculation of  $\sigma$  was done graphically. The error in the measurements did not exceed 20%. The σ of Cu<sub>2</sub>S on the B with S [CaO 12, Al<sub>2</sub>O<sub>3</sub> 15, the remainder (FeO+SiO<sub>2</sub>)] decreases from 340 (FeO 0) to 150 erg/cm<sup>2</sup> (FeO 50); for Ni<sub>3</sub>S<sub>2</sub> on the B with S [CaO 27, Al2O3 11, the remainder (FeO+SiO2)] it varies from 450 (FeO 0) to 200 erg/cm<sup>2</sup> (FeO 35). The de-

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SOV/137-58-8-16387

Interphase Tension in Sulfide-slag Melts

sulfides toward that of the S in proportion to the increasing concentration of FeO in the latter. Upon the substitution of Cu<sub>2</sub>S for Ni<sub>3</sub>S<sub>2</sub> in the matte, the  $\sigma$  on the B with S (SiO<sub>2</sub> 72, CaO 8, Al<sub>2</sub>O<sub>3</sub> 6, Na<sub>2</sub>O 14) decreases from 470 (Ni<sub>3</sub>S<sub>2</sub> 100) to 300 erg/cm<sup>2</sup> (Cu<sub>2</sub>S 100). The  $\sigma$ -vs.-composition curve is concave upward. The values for  $\sigma$  are close to those of the surface tension of sulfides measured earlier. The authors explain the decrease in the losses of sulfides in the slag by the increase of  $\sigma$  upon the decrease of FeO in S or Cu<sub>2</sub>S in the matte.

S.P.

1. Medal sulfides--Surface tension 2. Slags--Properties 3. Mathematics

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YESIN, O.A.; SRYVALIN, I.T.; KHLYNOV, V.V.

Studying the properties of fusions Pb0--Ns20--Si02 by means of electromotive forces. Zhur. neorg. khim. 2 10:2429-2435 0 '57.

(MIRA 11:3)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirove. (Fusion) (Oxides) (Electrolysis)

HIKITIN, Yu.P.; YESIN, O.A.; SRYVALIN, I.T.

Binary layer capacity at the boundary of aluminum with the cryolite alumina melt. Nauch. dokl. vys. shkoly; met.
no.1:37-40 '58. (MIRA 11:9)

(Aluminum-Electrometallurgy)